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DEQ-Coeur d'Alene
Regional Office

Potlatch

Potlatch Corporation
Resource Management Division
Idaho Region

St. Joe Area Woodlands
P.O. Box 386
St. Maries, Idaho 83861-0386
Telephone (208) 245-4146
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December 21, 2001

State of Idaho
Division of Environmental Quality
2110 Ironwood Parkway
Coeur d'Alene ID 83814-2648

Attn: Kreg Beck

Re: Avery Landing Remediation and Project Schedule

Dear Kreg:

The Avery landing monthly well monitoring from November 2000 through October of 2001 is attached for your review.

We purchased a "new" oil/water interface meter manufactured by HERON INSTRUMENTS to accurately measure product depth in the wells for the twelve month monitoring period.

The product thickness measured in older wells (EW's, HC's and MW's) over the past twelve month period shows "less" product thickness than previously measured in the wells.

During the monthly well monitoring the St. Joe River water surface was observed for any visible oil sheen and none was observed.

In the spring of 2001 sixty cottonwood, thirty willow and maple, sixty Ponderosa Pine, and twenty five Spruce trees were planted on the remediation site.

On August 9th and 10th, 2001 the St. Joe Oil Company removed 1,290 gallons of stored oil product to the Potlatch Corporation, St. Maries Complex boilers for disposal. This stored oil was extracted by our original remediation system that operated from 1994 through 2000. We filed a "Notification of Regulated Waste Activity" with the environmental Protection Agency to comply with section 3010 of the Resource Conservation and Recovery Act (RCRA). Our EPA I.D. number is IDR000200105.

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Avery Landing Remediation and Project Schedule

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The Avery Landing Remediation System has been installed for over a year and is functioning as designed. The remediation has effectively stopped the oil product from entering the St. Joe River.

For the next five years (2002-2006) we propose to monitor the existing wells once per year during the month of August or September. In the event measurable oil product of 0.05' or greater is observed in the six 36 inch collection wells, we will use absorption pads to collect and remove the oil from the wells. We will also monitor the St. Joe River for any sign of oil sheen on the water surface and ensure that vegetation is established in accordance with our corrective action plan.

Kreg, if you have any questions feel free to call me at my St. Maries office.

Sincerely,

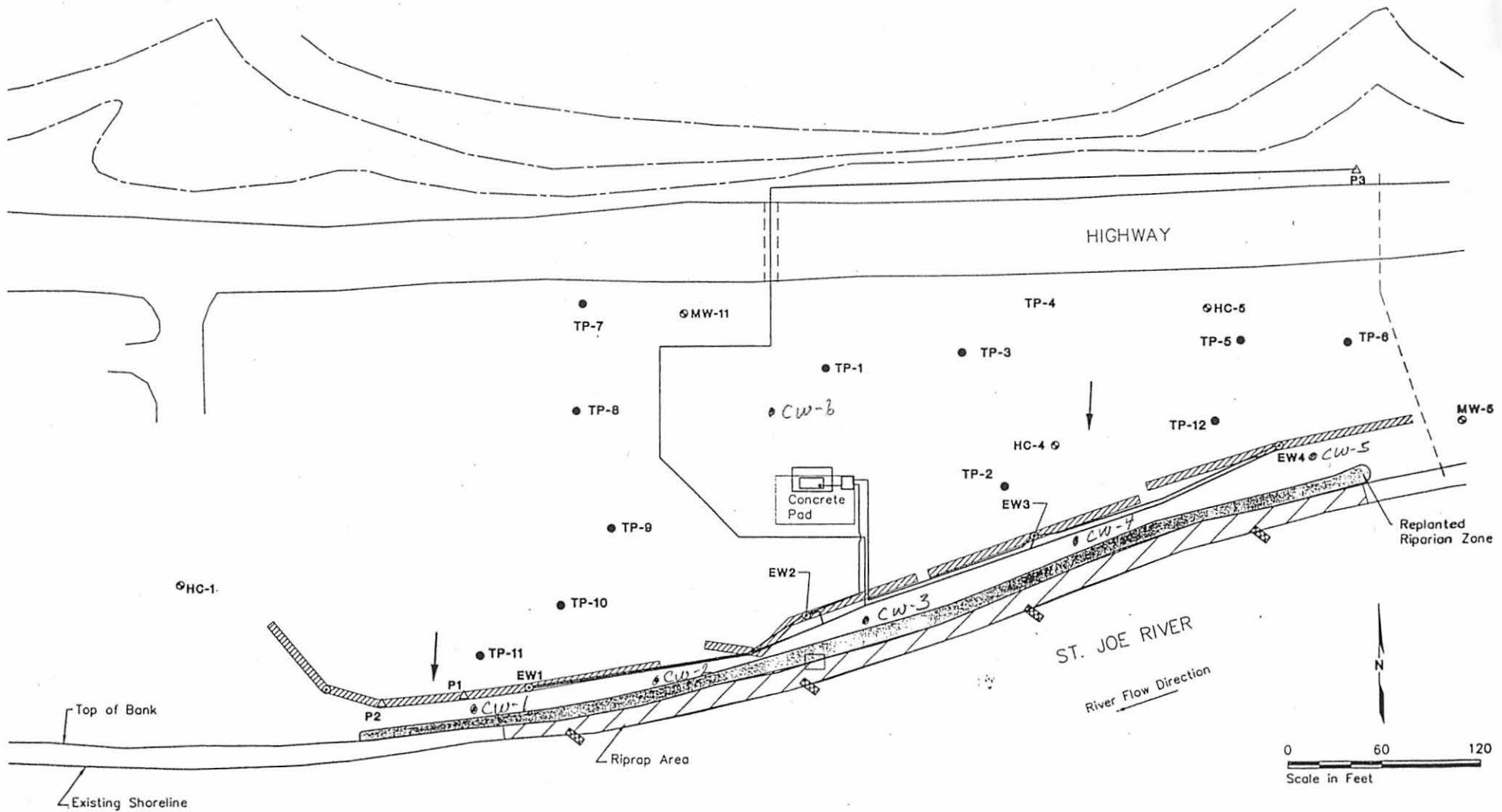


Norm Linton
Area Manager

NL: br

CC: Greg Weigal - U.S., EPA, Boise
Chip Corsi - IDFG, CDA
Mike McAllister
John Emery
Greg Rapp

Avery Landing Remediation Site



Exploration Location and Number

- MW-4 Monitoring Well
- EW1 Extraction Well
- △ P1 Piezometer

- ← Approximate Groundwater Flow Direction
- ▨ Existing Extraction Trench
- ▨ Area of Riparian Zone to be Replanted

- TP-1 Test Pit/Monitoring Well Location and Number
- ▨ Riprap Barb Location

Avery Well Monitoring

Monitoring Location	Date	Dept to Oil Product	Dept to Water	Product Thickness	Comments
CW-1	11/08/00	-	14.51	-	To water - no oil
	12/04/00	-	13.92	-	To water - sheen
	01/16/01	-	13.82	-	Depth to water light sheen
	02/15/01	-	13.46	-	To water - light sheen
	03/16/01	-	13.85	-	To water - light sheen visible
	04/18/01	-	13.70	-	To water - sheen
	05/15/01	-	10.58	-	To water - light sheen visible
	06/20/01	-	13.21	-	To water - light sheen visible
	07/24/01	-	14.12	-	To water - light sheen visible
	08/21/01	-	14.43	-	To water - light sheen present
	09/28/01	-	14.69	-	To water - light sheen
	10/31/01	-	13.75	-	To water - light sheen (15.7 to bottom)
CW-2	11/08/00	-	15.31	-	To water - oil not measureable - sheen
	12/04/00	-	14.74	-	To water - sheen
	01/16/01	-	14.62	-	To water - light sheen
	02/15/01	-	14.30	-	To water - light sheen
	03/16/01	-	14.68	-	To water - light sheen
	04/18/01	-	14.45	-	
	05/15/01	-	11.41	-	To water - light sheen visible
	06/20/01	-	14.01	-	To water - light sheen
	07/24/01	-	14.95	-	To water - light sheen visible
	08/21/01	-	15.23	-	To water - light sheen/rust
	09/28/01	-	15.41	-	To water - light sheen
	10/31/01	-	14.55	-	To water - light sheen (15.85 to bottom)
CW-3	11/08/00	-	13.30	-	To water - no oil
	12/04/00	-	11.81	-	To water - very light sheen
	01/16/01	-	12.35	-	To water - light sheen
	02/15/01	-	12.10	-	To water - light sheen
	03/16/01	-	12.73	-	To water - light sheen
	04/18/01	-	12.35	-	To water - sheen
	05/15/01	-	8.80	-	To water - light sheen
	06/20/01	-	11.87	-	To water - light sheen
	07/24/01	-	12.81	-	To water - light sheen visible
	08/21/01	-	13.18	-	To water - light sheen visible
	09/28/01	-	13.38	-	To water - light sheen, some rust
	10/31/01	-	12.40	-	To water - light sheen (16.1 to bottom)
CW-4	11/08/00	-	12.51	-	To water - sheen visible
	12/04/00	-	11.20	-	To water - sheen
	01/16/01	-	11.56	-	To water - light sheen
	02/15/01	-	11.52	-	To water - light sheen
	03/16/01	-	11.68	-	To water - very light sheen
	04/18/01	-	11.50	-	To water - sheen
	05/15/01	-	8.24	-	To water - very light sheen
	06/20/01	-	10.93	-	To water - light sheen
	07/24/01	-	11.89	-	To water - rusty sheen present
	08/21/01	-	12.40	-	To water - rusty sheen present
	09/28/01	-	12.71	-	To water - rusty sheen
	10/31/01	-	10.83	-	To water - clean (15.60 to bottom)
CW-5	11/08/00	-	12.85	-	To water - oil not measurable - sheen
	12/04/00	-	11.91	-	To water - no measurable oil - sheen
	01/16/01	-	11.81	-	To water - light sheen
	02/15/01	-	11.41	-	To water - light sheen

Avery Well Monitoring

Monitoring Location	Date	Dept to Oil Product	Dept to Water	Product Thickness	Comments
CW-5 (Continued)	03/16/01	-	11.83	-	To water - very light sheen
	04/18/01	-	11.18	-	To water - sheen
	05/15/01	-	8.50	-	To water - light sheen
	06/20/01	-	11.10	-	To water - very light sheen
	07/24/01	-	12.41	-	To water - light sheen
	08/21/01	-	12.83	-	To water
	09/28/01	-	13.39	-	To water - very light sheen
	10/31/01	-	11.78	-	To water - very light sheen (15.30 to bottom)
CW-6	11/08/00	-	18.21	-	To water - sheen
	12/04/00	-	17.35	-	To water - sheen
	01/16/01	-	17.33	-	To water - light sheen
	02/15/01	-	17.11	-	To water - light sheen
	03/16/01	-	17.26	-	To water - light sheen
	04/18/01	-	17.14	-	To water - sheen
	05/15/01	-	14.11	-	Visible thin layer of oil
	06/20/01	-	16.70	-	Visible thin layer of oil
	07/24/01	-	17.68	-	To water - visible thin layer of oil
	08/21/01	-	18.13	-	To water - visible thin layer of oil
	09/28/01	-	18.42	-	To water - thin layer of oil
	10/31/01	-	17.33	-	To water - thin layer of oil (19.70 to bottom)
EW-1	11/08/00	-	15.91	-	To water - sheen visible
	12/04/00	-	15.30	-	To water - light sheen
	01/16/01	-	15.39	-	To water - light sheen
	02/15/01	-	15.08	-	To water - light sheen
	03/16/01	-	15.45	-	To water
	04/18/01	-	15.45	-	To water - light sheen
	05/15/01	-	12.21	-	To water
	06/20/01	-	14.84	-	To water
	07/24/01	-	15.68	-	To water
	08/21/01	-	16.06	-	To water - light sheen
	09/28/01	-	16.34	-	To water - light sheen
	10/31/01	-	15.38	-	To water - light sheen
EW-2	11/08/00	-	15.25	-	To water - heavy sheen
	12/04/00	14.19	Can't determine	-	Can't determine oil depth - too thick
	01/16/01	14.60	Can't determine	-	To oil - very thick
	02/15/01	14.34	14.36	0.02	Oil present
	03/16/01	14.75	14.78	0.03	Oil present
	04/18/01	14.60	Can't determine	-	Couldn't clean probe
	05/15/01	11.53	11.54	0.01	Oil present - thin layer
	06/20/01	14.10	Can't determine	-	To oil
	07/24/01	14.95	15.00	0.05	To oil
	08/21/01	15.34	15.38	0.04	Oil present
	09/28/01	15.62	15.67	0.05	To oil
	10/31/01	14.62	14.65	0.03	To oil
EW-3	11/08/00	16.42	16.50	0.08	Oil present
	12/04/00	14.42	Can't determine	-	Can't determine oil depth - too thick
	01/16/01	14.80	Can't determine	-	Oil present - can't get thickness
	02/15/01	14.50	Can't determine	-	Oil present
	03/16/01	14.77	14.80	0.03	Oil present
	04/18/01	14.60	Can't determine	-	Couldn't clean probe
	05/15/01	11.38	11.42	0.04	Oil present
	06/20/01	14.13	14.17	0.04	Oil present

Avery Well Monitoring

Monitoring Location	Date	Dept to Oil Product	Dept to Water	Product Thickness	Comments
EW-3 (Continued)	07/24/01	15.05	15.11	0.06	Oil present
	08/21/01	15.52	15.58	0.06	Oil present
	09/28/01	15.81	15.89	0.08	To oil
	10/31/01	14.60	14.64	0.04	To oil
EW-4	11/08/00	13.75	13.77	0.02	Oil present
	12/04/00	12.64	12.65	0.01	Oil present
	01/16/01	12.74	Can't determine	-	Thick oil present
	02/15/01	12.25	Can't determine	-	To oil
	03/16/01	12.42	Can't determine	-	To oil - very thick
	04/18/01	11.35	Can't determine	-	Couldn't clean probe
	05/15/01	9.01	9.02	0.01	To oil - thin layer
	06/20/01	11.58	11.59	0.005	Oil present
	07/24/01	12.90	12.93	0.03	Oil present
	08/21/01	13.62	13.64	0.02	Oil present
	09/28/01	14.00	14.02	0.02	To oil
	10/31/01	12.55	12.57	0.02	To oil (very thick)
HC-1	11/08/00	-	-	-	Could not find
	12/04/00	-	-	-	Could not find
	01/16/01	-	-	-	Could not find
	02/15/01	-	-	-	Could not find
	03/16/01	-	12.70	-	To water - no oil
	04/18/01	-	12.50	-	To water - clean
	05/15/01	-	9.72	-	To water - some red rust
	06/20/01	-	12.10	-	Water - light red rust
	07/24/01	-	12.91	-	To water - clean
	08/21/01	-	13.27	-	To water - clean
	09/28/01	-	13.45	-	To water - light red rust present
	10/31/01	-	12.63	-	Red rust present (17.85 to bottom)
HC-4	11/08/00	13.68	14.46	0.78	Oil present
	12/04/00	12.97	Can't determine	-	Can't determine oil depth - too thick
	01/16/01	12.81	Can't determine	-	Oil present
	02/15/01	12.51	Can't determine	-	Oil present
	03/16/01	11.91	Can't determine	-	To oil
	04/18/01	12.20	Can't determine	-	Couldn't find probe
	05/15/01	10.48	Can't determine	-	Oil present
	06/20/01	12.15	12.34	0.19	Oil present
	07/24/01	13.07	13.38	0.31	Oil present
	08/21/01	13.55	14.12	0.57	Oil present
	09/28/01	13.80	14.61	0.81	Oil present
	10/31/01	12.65	13.45	0.80	Oil present (18.13 to bottom)
HC-5	11/08/00	-	18.40	-	To water - no oil
	12/04/00	-	17.63	-	To water - no measurable oil - sheen
	01/16/01	-	17.55	-	To water - no oil
	02/15/01	-	17.28	-	To water - no oil
	03/16/01	-	17.24	-	To water
	04/18/01	-	16.98	-	To water - clean
	05/15/01	-	14.25	-	To water - clean
	06/20/01	-	16.80	-	To water - clean
	07/24/01	-	17.88	-	To water - clean
	08/21/01	-	18.40	-	To water - clean
	09/28/01	-	18.72	-	To water - clean
	10/31/01	-	17.46	-	To water (23.05 to bottom)

Avery Well Monitoring

Monitoring Location	Date	Dept to Oil Product	Dept to Water	Product Thickness	Comments
MW-5	11/08/00	-	10.80	-	To water - no oil
	12/04/00	-	9.93	-	To water - no oil
MW-5	01/16/01	-	9.70	-	To water - no oil
(Continued)	02/15/01	-	9.35	-	To water - no oil
	03/16/01	-	10.04	-	To water
	04/18/01	-	9.28	-	Clean
	05/15/01	-	6.51	-	Clean
	06/20/01	-	9.20	-	Clean
	07/24/01	-	10.40	-	Clean
	08/21/01	-	10.97	-	Clean water
	09/28/01	-	11.28	-	Clean water
	10/31/01	-	9.92	-	To water (12.83 to bottom)
MW-11	11/08/00	-	-	-	Not tested
	12/04/00	18.40	-	-	Oil to thick - do not test
	01/16/01	17.90	-	-	To oil (thick) - not measurable
	02/15/01	-	-	-	Can't find - deep snow
	03/16/01	-	-	-	Not tested
	04/18/01	15.75	-	-	Couldn't clean probe
	05/15/01	-	-	-	Not tested
	06/20/01	-	-	-	Not tested
	07/24/01	-	-	-	Not tested
	08/21/01	-	-	-	Not tested
	09/28/01	-	-	-	Not tested
	10/31/01	-	-	-	Not tested
TP-1, 2"	11/08/00	-	20.02	-	To water - no oil
	12/04/00	-	19.10	-	To water - sheen
	01/16/01	-	19.16	-	To water - no oil
	02/15/01	-	18.88	-	To water - no oil
	03/16/01	-	19.08	-	To water - light sheen
	04/18/01	-	18.85	-	To water - light sheen
	05/15/01	15.785	15.79	0.005	To thin layer of oil
	06/20/01	-	18.53	-	To water - light sheen
	07/24/01	-	19.46	-	To water - light sheen
	08/21/01	-	19.95	-	To water - light sheen
	09/28/01	-	20.22	-	To water - sheen present
	10/31/01	-	19.08	-	Trace of oil (22.41 to bottom)
TP-1, 4"	11/08/00	-	19.75	-	To water - sheen
	12/04/00	18.83	18.84	0.01	Thin layer of oil
	01/16/01	-	18.92	-	To water - no oil
	02/15/01	-	18.63	-	To water - light sheen
	03/16/01	-	18.82	-	To water - heavy sheen
	04/18/01	-	18.60	-	To water - heavy sheen
	05/15/01	-	15.63	-	Heavy sheen
	06/20/01	-	18.28	-	To water - light sheen
	07/24/01	-	19.20	-	To water - heavy sheen
	08/21/01	-	19.69	-	To water - heavy sheen
	09/28/01	-	19.96	-	To water - heavy sheen
	10/31/01	-	18.85	-	Trace of oil - micro worms (16.98 to bottom)
TP-2	11/08/00	-	14.95	-	To water - no oil
	12/04/00	-	15.37	-	To bottom - no oil - dry well
	01/16/01	-	15.45	-	Dry well

Avery Well Monitoring

Monitoring Location	Date	Dept to Oil Product	Dept to Water	Product Thickness	Comments
TP-2 (Continued)	02/15/01	-	15.35	-	Dry well
	03/16/01	-	14.61	-	to water
	04/18/01	15.21	Can't determine	-	Couldn't clean probe
	05/15/01	-	12.19	-	To water
	06/20/01	14.85	14.86	0.01	Oil present
	07/24/01	-	15.40	-	Well bottom - sludge no oil
	08/21/01	-	15.40	-	Well bottom - dry trace of oil
	09/28/01	-	15.90	-	well bottom - dry light trace of oil
	10/31/01	-	14.50	-	To water (15.40 to bottom)
TP-3	11/08/00	-	16.45	-	Dry well
	12/04/00	-	16.05	-	Dry well
	01/16/01	-	16.10	-	Dry well
	02/15/01	-	16.12	-	Dry well
	03/16/01	-	15.01	-	To water - light sheen
	04/18/01	-	15.80	-	To water - light sheen
	05/15/01	-	13.28	-	To water - very light sheen
	06/20/01	-	15.58	-	To water - oil globs on probe
	07/24/01	-	16.10	-	Well bottom - dry well/clean
	08/21/01	-	16.10	-	Well bottom - dry trace of oil
	09/28/01	-	16.10	-	Well bottom - dry trace of oil
	10/31/01	-	15.20	-	Trace of oil - micro worms present (16.10 to bottom)
TP-5	11/08/00	-	17.92	-	To water - no oil
	12/04/00	-	16.27	-	To water - no measurable oil - sheen
	01/16/01	-	16.11	-	To water - light sheen
	02/15/01	-	15.76	-	To water - light sheen
	03/16/01	-	15.12	-	To water
	04/18/01	-	15.55	-	Clean
	05/15/01	-	12.73	-	Clean
	06/20/01	-	15.21	-	Clean
	07/24/01	-	16.35	-	Clean
	08/21/01	-	16.86	-	To water - micro worms present
	09/28/01	-	16.98	-	To water - trace of oil
	10/31/01	-	15.63	-	To water (18.10 to bottom)
TP-6	11/08/00	-	15.00	-	Dry well
	12/04/00	-	14.76	-	To water - no oil
	01/16/01	-	14.62	-	Dry well
	02/15/01	-	14.42	-	To water - no oil
	03/16/01	-	14.13	-	To water
	04/18/01	-	14.14	-	Clean
	05/15/01	-	11.62	-	Clean
	06/20/01	-	13.95	-	Clean
	07/24/01	-	14.79	-	Specks of oil
	08/21/01	-	14.95	-	Well bottom - dry trace of oil
	09/28/01	-	14.98	-	Well bottom - oily mud
	10/31/01	-	14.38	-	To water (14.98 to bottom)
TP-7	11/08/00	-	17.30	-	Dry well
	12/04/00	-	17.05	-	Bottom - dry well
	01/16/01	-	17.00	-	Dry well
	02/15/01	-	17.10	-	Dry well
	03/16/01	-	14.73	-	To water - red rust in water
	04/18/01	-	15.38	-	Clean
	05/15/01	-	14.36	-	To water - red rust color

Avery Well Monitoring

Monitoring Location	Date	Dept to Oil Product	Dept to Water	Product Thickness	Comments
	06/20/01	-	16.96	-	Dry well - wet red rust
	07/24/01	-	16.98	-	Well bottom - dry
	08/21/01	-	16.98	-	Well bottom - dry
	09/28/01	-	16.98	-	Well bottom - dry
	10/31/01	-	16.81	-	To water - micro worms (16.98 to bottom)
TP-8	11/08/00	-	17.40	-	Dry well
	12/04/00	-	16.76	-	Bottom - dry well
	01/16/01	-	16.81	-	Dry well
	02/15/01	-	16.80	-	Dry well
	03/16/01	-	16.42	-	To water - oil skim present
	04/18/01	-	16.45	-	To water - skim of oil
	05/15/01	-	14.00	-	To water - skim of oil
	06/20/01	-	16.39	-	To water - skim of oil
	07/24/01	-	16.82	-	Well bottom - dry
	08/21/01	-	16.82	-	Well bottom - dry
	09/28/01	-	16.82	-	Well bottom - dry
	10/31/01	-	16.82	-	Dry - clean
TP-9	11/08/00	-	18.41	-	Water - no oil
	12/04/00	-	17.80	-	To water - no oil
	01/16/01	-	17.67	-	To water - no oil
	02/15/01	-	17.38	-	To water - no oil
	03/16/01	17.35	17.42	0.04	Oil present - very thin oil
	04/18/01	-	17.34	-	Oil present - thin oil
	05/15/01	14.58	14.585	0.005	To thin layer of oil - micro worms present
	06/20/01	17.05	17.055	0.005	Thin layer of oil
	07/24/01	17.95	17.98	0.03	Oil present
	08/21/01	18.35	18.39	0.04	Oil present
	09/28/01	18.61	18.64	0.03	Oil present - micro worms present
	10/31/01	17.66	17.67	0.01	Oil present (19.25 to bottom)
TP-10	11/08/00	-	18.00	-	Dry well
	12/04/00	-	17.48	-	To water - no oil
	01/16/01	-	17.24	-	To water - no oil
	02/15/01	-	16.96	-	To water - no oil
	03/16/01	-	17.03	-	To water
	04/18/01	-	17.10	-	Clean
	05/15/01	-	14.20	-	To water
	06/20/01	-	16.64	-	To water
	07/24/01	-	17.45	-	To water - micro white worms
	08/21/01	-	17.50	-	Well bottom - light sludge - oily
	09/28/01	-	17.50	-	Well bottom - dry
	10/31/01	-	16.84	-	To water - micro worms (17.50 to bottom)
TP-11	11/08/00	-	18.00	-	Dry well
	12/04/00	-	17.46	-	To water - no oil
	01/16/01	-	17.23	-	To water - no oil
	02/15/01	-	16.97	-	To water - no oil
	03/16/01	-	17.11	-	To water - very light sheen
	04/18/01	-	17.10	-	To water - very light sheen
	05/15/01	-	14.18	-	To water - light sheen
	06/20/01	-	16.70	-	To water
	07/24/01	-	17.43	-	To water - micro white worms present - no oil
	08/21/01	-	17.58	-	To water - micro white worms present
	09/28/01	-	17.80	-	To water - light sheen present

Avery Well Monitoring

Monitoring Location	Date	Dept to Oil Product	Dept to Water	Product Thickness	Comments
	10/31/01	-	17.70	-	To water - micro worms (17.90 to bottom)
TP-12	11/08/00	-	14.76	-	To water - no oil
	12/04/00	-	15.01	-	To water - no measureable oil - sheen
	01/16/01	-	14.83	-	To water - no oil
	02/15/01	-	14.72	-	To water - no oil
TP-12 (Continued)	03/16/01	-	13.82	-	To water
	04/18/01	-	14.70	-	To water - light sheen
	05/15/01	-	11.60	-	Light sheen
	06/20/01	-	14.26	-	Very light sheen
	07/24/01	-	15.25	-	Well bottom - sandy sludge with oil
	08/21/01	-	15.25	-	Well bottom - sludge with oil
	09/28/01	-	15.28	-	Well bottom - oil sludge
	10/31/01	-	14.53	-	To water - trace of oil (15.30 to bottom)